CANADA
DEPARTMENT
OF
MINES AND TECHNICAL SURVEYS

GEOLOGICAL SURVEY OF CANADA

SHEET 63 K/14 (East Half)

LEGEND

ARCHÆAN OR PROTEROZOIC

- **13** — Pink biotite granodiorite
- **12** — Gneissic diorite and syenodiorite in part porphyritic
- **11** — Grey gneissic hornblende diorite, hornblende-biotite quartz diorite, and granodiorite; buff gneissic biotite granodiorite; granitized volcanic and sedimentary rocks and migmatites
- **10** — 'Quartz-eye' granite and grey gneissic rocks derived mainly by granitization of basic volcanic rocks (1); age uncertain, possibly older than Kisseynew complex (5-7) (on Map 54-14B only)
- **9** — Meta-gabbro and meta-diorite; meta-pyroxenite, younger than 3, older than 10; relations to 5, 6, 7 not known (on Map 54-14B only)
- **8** — Rhyolite and quartz-feldspar porphyry; in part, at least, younger than 11; relations to 5, 6, 7 not known

KISSEYNEW COMPLEX (5-7)

- **7** — Granodiorite; pegmatite; granitized gneiss derived from both biotite gneiss (5) and hornblende-plagioclase gneiss (6)
- **6** — Hornblende-plagioclase gneiss, in part banded
- **5** — Biotite gneiss, in part garnetiferous
- **4** — Interbedded argillite and greywacke; hornblende-biotite schists and gneiss; relation to Kisseynew complex (5-7) unknown

ARCHÆAN

AMISK GROUP (1-3)

- **3** — Hornblende-plagioclase gneiss, probably altered lavas (on Map 54-14B only)
- **2** — Garnetiferous biotite schist and gneiss, garnetiferous staurolite gneiss, probably altered sediments; minor quartzite (on Map 54-14B only)
- **1** — Basic lavas, pillow lavas, minor acidic volcanic rocks, minor pyroclastic rocks, cherts, iron formation; undifferentiated basic intrusions; **1a**, basic flows with thin bands of garnetiferous hornblende-plagioclase gneiss; **1b**, banded hornblende-plagioclase gneiss derived from 1; **1c**, coarse-grained amphibolite derived from 1 (1a occurs on map 54-14B only)

Schistosity, gneissosity (inclined, vertical, dip unknown)
Foliation (inclined, vertical, dip unknown)
Lineation (direction and amount of plunge determined from linear elements)
Drag-fold (form and direction of plunge)
Faults and shear zones
Glacial striæ
Mineral property

INDEX TO MINERAL DEPOSITS

1 Kay Lake Property
2 Vamp Lake Property
3 Redwin Property
4 Fay Lake Property

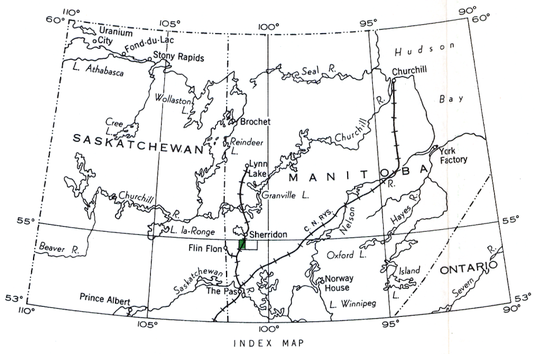
Geology by J.C. McGlynn, 1949, 1950, 1951, 1952

Trail, portage or winter road
Buildings
Township boundary (surveyed)
Township boundary (unsurveyed)
Intermittent stream
Marsh
Height in feet above mean sea-level . . . 1085′

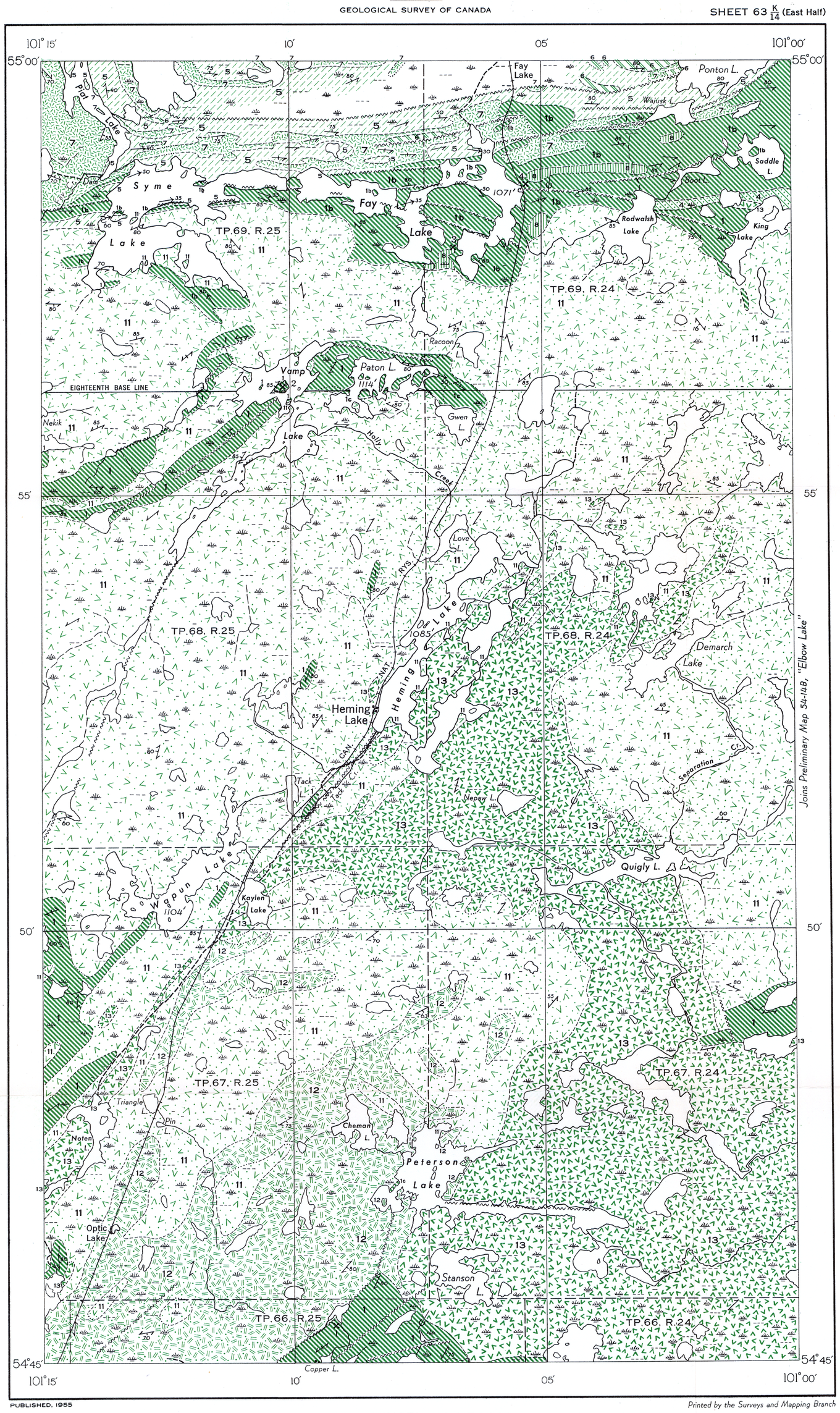
Approximate magnetic declination, 15° 42′ East

Cartography by the Geological Cartography Division, 1954

Air photographs covering this map-area may be obtained through the National Air Photographic Library, Topographical Survey, Ottawa, Ontario



INDEX MAP



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PRELIMINARY MAP 54-14A

HEMING LAKE

(NAOSAP LAKE, EAST HALF)

WEST OF PRINCIPAL MERIDIAN

MANITOBA

Scale: One Inch to One Mile = $\frac{1}{63,360}$

MILES

1 0 1 2 3

PRELIMINARY MAP 54-14A
HEMING LAKE
MANITOBA
SHEET 63 K/14 (East Half)

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